

L103b adjustment unit \_103a information generation Control storage interval **Polling** Polling Packet unit Appliance control unit Communication unit unit unit Terminal apparatus  $116^{\prime}$ ,110 processing unit Communication Encryption Internet terminal 103 Local network 100 Router 101 0000 Fig. 2 205a ~202 ,201 Communication processing unit portnumber Terminal Destination Destination ID address portnumbe Encryption Terminal information 205 unit Server apparatus 200 storage unit ,206 ,203 processing unit adjustment generation Response interval request Control **Packet** unit

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Fig. 3

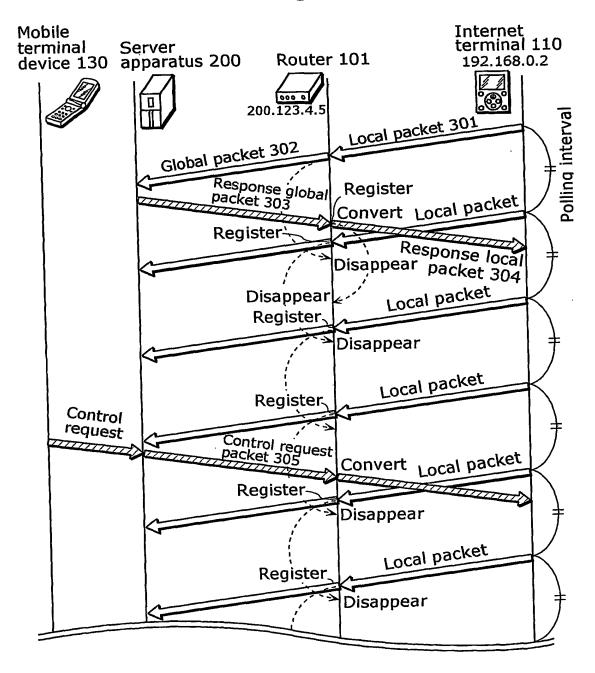
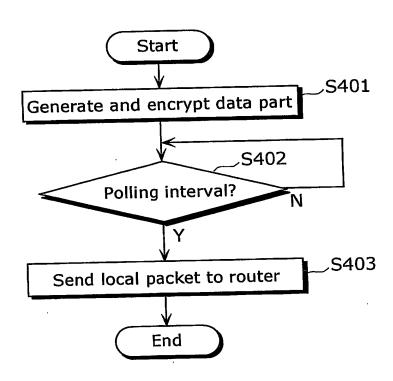


Fig. 4



Polling Interval 511 number port 510 Local 509 Digest value 200 508 Random value Data part 502 Fig. 5 507 Terminal ID Sender's port number 506 - Sending direction 505 Sender's address Header part 501 Destination port number 504 503 address Destination

Fig. 6

## <u>600</u>

Local network side		Internet side	
Local address	Port number	Global address	Port number
192.168.0.2	5000	200.123.4.5	6000
192.168.0.3	5000	200.123.4.5	6080
192.168.0.4	5000	200.123.4.5	6083
•		:	:
:	•		

Fig. 7 Start S701 Receive and decrypt global packet S702 Authentication succeeded? S703 Record set of terminal ID, sender's address and sender's port number S704 Obtain polling interval and determine response send interval at which response global packet is sent S705 Control request N occurred during response send interval? S707 √S706 Store "No control Store contents of control request" in control request in control request request command command S708 Generate and encrypt frame 2 S709 Send response global packet to router End

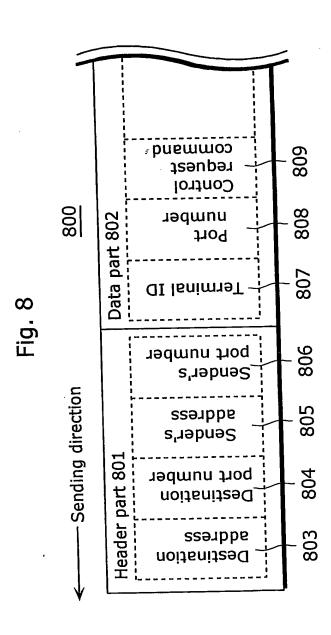
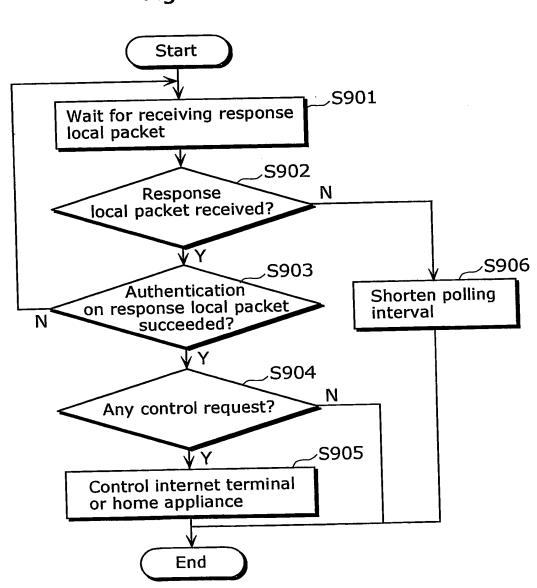


Fig. 9



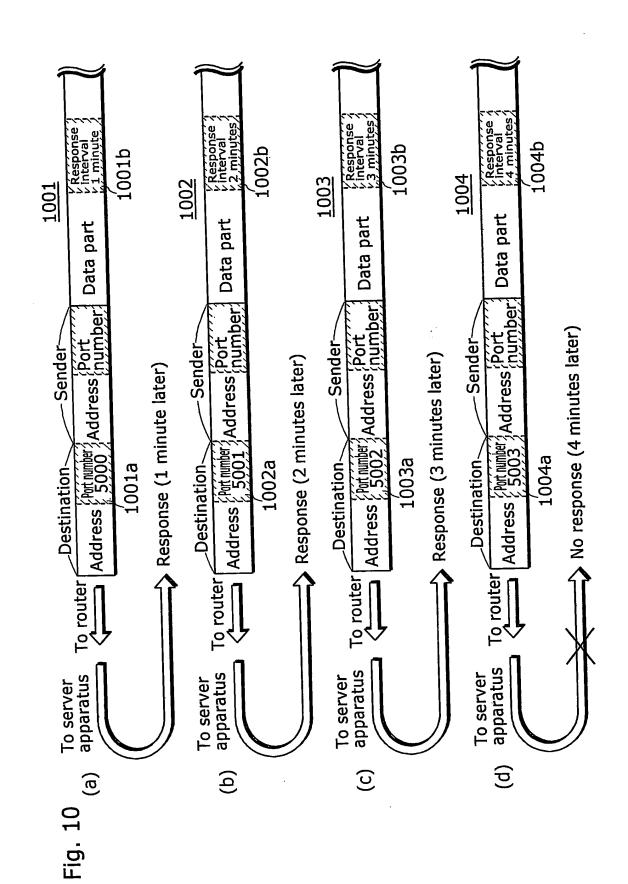
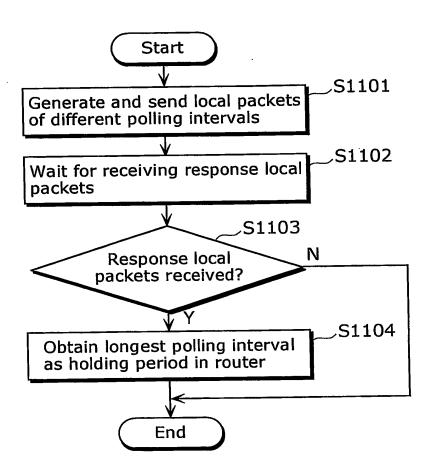


Fig. 11



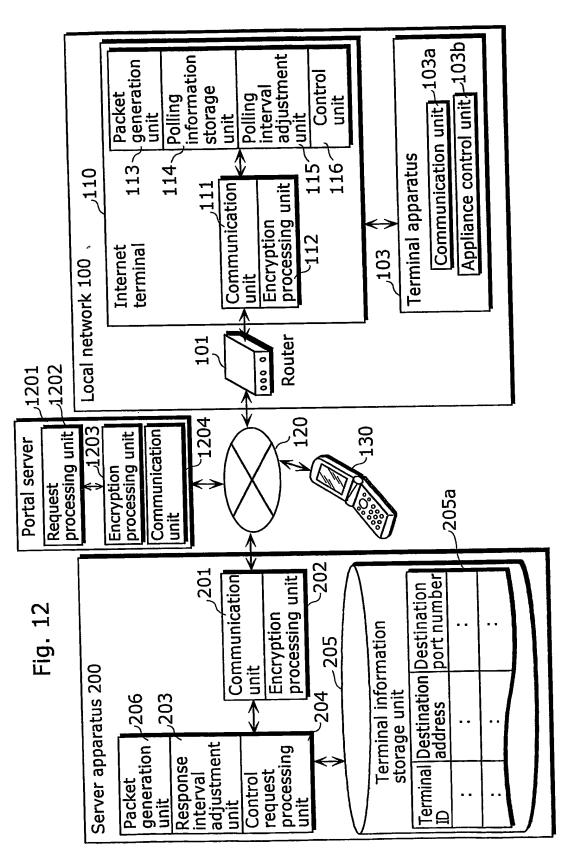


Fig. 13

